



Air Quality Sensor integrated into W13 Portal Services

Wireless monitoring of VOC levels

The Air Quality Sensor monitors volatile organic compound (VOC) levels to ensure the best air quality possible. VOCs are organic chemicals present in indoor air, and some VOCs can cause both short-term and long-term adverse health effects.

With the wireless Air Quality Sensor, your customers will be able to monitor indoor air quality and ensure that the air is clean and healthy. As the Air Quality Sensor also monitors humidity, it can be used to monitor the humidity in the house and protect valuable belongings.

The Air Quality Sensor features long range and accurate reporting of VOC levels, temperature, and humidity.

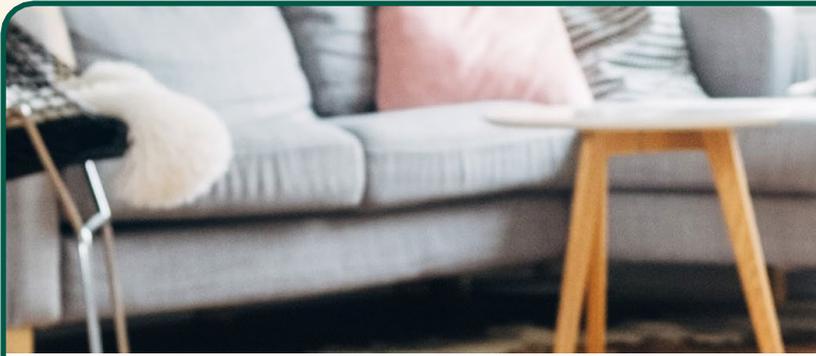


- **Continuous monitoring of VOC levels**
- **Accurate humidity, temperature and air quality reporting**
- **Easy mounting and installation**

Monitor indoor air quality, temperature and humidity

The battery-driven Air Quality Sensor provides your customers with continuous monitoring of VOCs and information on the VOC levels throughout the day in order to prevent adverse health effects.

LEVEL	HYGIENIC RATING	RECOMMENDATION	TVOC [$\mu\text{g}/\text{m}^3$]	TVOC [ppb]	
5	Unhealthy	Situation not acceptable	Intense ventilation necessary	10'000 - 25'000	2200 - 5500
4	Poor	Major objections	Intensified ventilation / airing necessary	3'000 - 10'000	660 - 2200
3	Moderate	Some objections	Intensified ventilation recommended	1'000 - 3'000	220 - 660
2	Good	No relevant objections	Ventilation/airing recommended	300 -1'000	65 - 220
1	Excellent	No objections	Target value	< 300	0 - 65



Air Quality Sensor - Technical specifications

Model number: AQSZB-110

General

Dimensions (W x H x D)	70 x 70 x 21 mm / 2.76 x 2.76 x 0.83 inches
Weight	29.1 / 1.03 oz (with packaging: 120.5 g / 4.25 oz)
Color	White

Power supply	Battery: 2 x AA, exchangeable Battery life: 2 years, reporting every 5 minutes Resolution: 0.1 Volt
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Radio	Sensitivity: -92 dBm Output power: Typ. +4 dBm
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Environment	Operation temperature 0 to +50°C / 32 - 122°F IP class: IP20
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Functions

VOC sensor	Range: 0 to 60000 ppb Resolution: 1 - 32 ppb Reporting: configurable*
Temperature sensor	Range: 0 to +50°C / 32 - 122°F Resolution: 0.1°C / 0.18°F (accuracy typical $\pm 0.2^\circ\text{C}$ / 0.36°F) Sample time: 30 s Reporting: configurable*
Humidity sensor	Range: 0 to 100% RH Resolution: 1% RH (accuracy typical 2%, 20-80% RH)

Communication

Wireless protocol	Zigbee Home Automation Zigbee end-device
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Certifications

Conforming to CE, RED and RoHS directives

*requires a hub that supports configuration